

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P294141

Luminaire Tested: **24GR-LD5-56-A19/156-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33308)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-A19/156-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5205.0 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

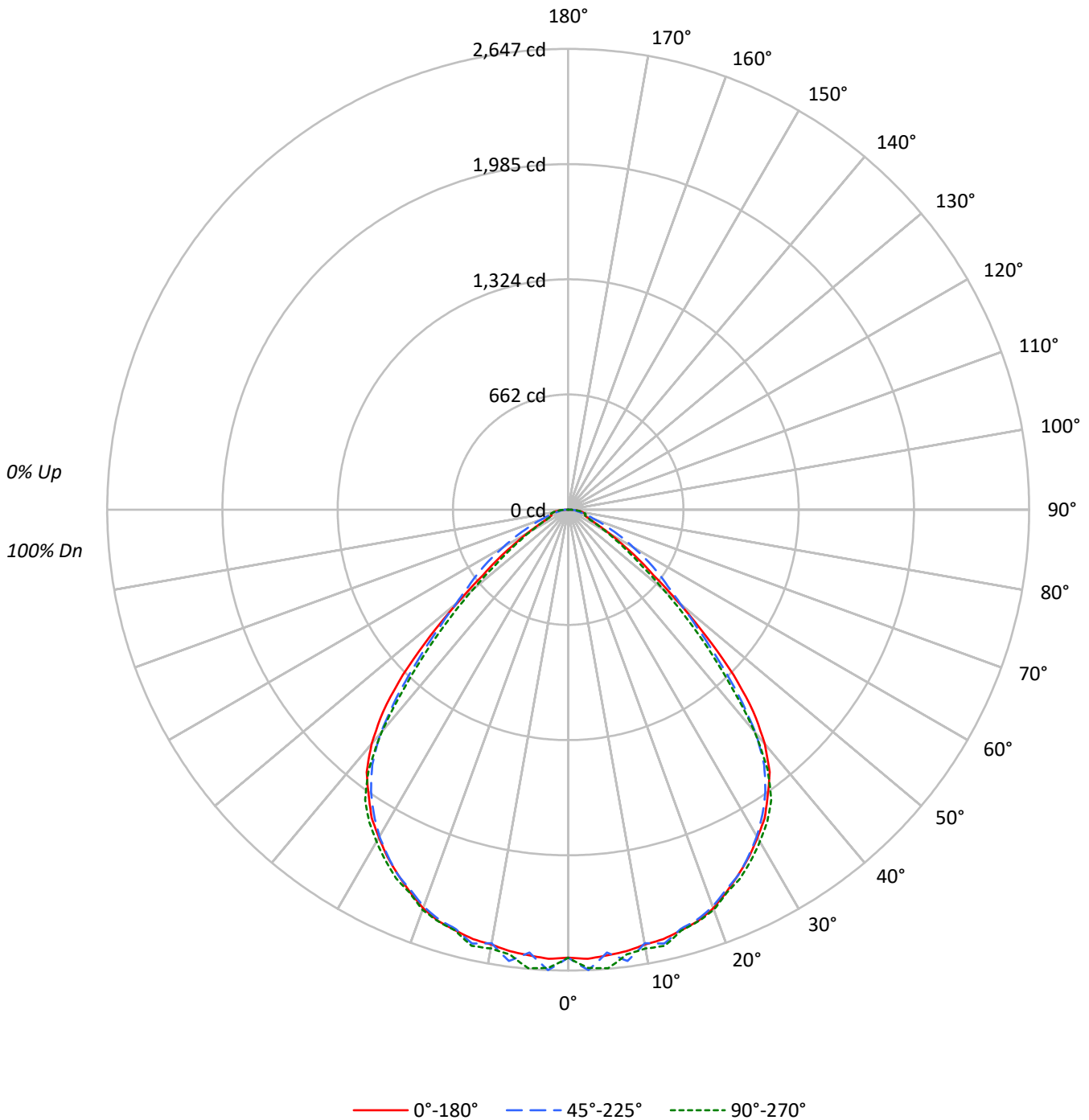
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	68					68			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60					60			
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53					53			
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48					48			
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43					43			
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	39					39			
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36					36			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33					33			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3463	3463	3463
5°	3470	3448	3570
10°	3465	3455	3497
15°	3485	3473	3487
20°	3488	3473	3502
25°	3434	3436	3470
30°	3377	3366	3421
35°	3281	3242	3339
40°	3082	2944	2928
45°	2554	2311	2192
50°	1718	1753	1498
55°	1133	1471	982
60°	727	1161	672
65°	468	886	455
70°	414	635	414
75°	534	504	539
80°	654	434	687
85°	761	645	800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.4	4.7
10°-20°	707.6	13.6
20°-30°	1065.3	20.5
30°-40°	1234.7	23.7
40°-50°	964.5	18.5
50°-60°	515.0	9.9
60°-70°	264.8	5.1
70°-80°	149.8	2.9
80°-90°	56.9	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2019.3	38.8
0°-40°	3253.9	62.5
0°-60°	4733.5	90.9
0°-90°	5205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5205.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2574	2574	2574	2574	2574	
5°	2570	2641	2553	2623	2643	244
15°	2502	2518	2494	2509	2504	707
25°	2313	2305	2315	2311	2337	1066
35°	1998	1989	1974	2013	2033	1245
45°	1342	1343	1215	1204	1152	1012
55°	483	611	627	565	419	446
65°	147	307	278	306	143	162
75°	103	193	97	181	104	104
85°	49	64	42	64	52	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2573.7	2573.7	2573.7	2573.7	2573.7
2.5°	2582.1	2628.9	2647.3	2624.7	2634.7
5°	2569.5	2641.4	2552.8	2623.0	2643.1
7.5°	2557.8	2550.3	2614.7	2547.8	2576.2
10°	2536.1	2541.1	2528.6	2576.2	2559.5
12.5°	2526.1	2555.3	2552.8	2528.6	2565.4
15°	2501.8	2517.7	2493.5	2509.4	2503.5
17.5°	2477.6	2470.1	2467.6	2474.3	2480.1
20°	2435.8	2410.7	2425.8	2427.4	2445.8
22.5°	2375.6	2360.6	2363.9	2379.0	2380.6
25°	2312.9	2305.4	2314.6	2311.3	2337.2
27.5°	2247.7	2237.7	2243.5	2256.1	2272.0
30°	2173.3	2170.8	2166.6	2177.5	2201.7
32.5°	2099.8	2079.7	2076.4	2098.9	2126.5
35°	1997.8	1988.6	1973.6	2012.8	2032.9
37.5°	1900.8	1872.4	1848.2	1871.6	1879.9
40°	1754.5	1732.8	1676.0	1678.5	1666.8
42.5°	1574.8	1558.9	1450.3	1431.1	1398.5
45°	1342.4	1343.3	1214.6	1203.7	1151.9
47.5°	1072.5	1120.1	1008.1	995.6	918.6
50°	820.8	906.9	837.6	817.5	715.5
52.5°	616.1	742.3	720.5	677.1	536.6
55°	483.1	611.0	626.9	565.1	418.8
57.5°	363.6	503.2	529.1	478.1	323.5
60°	270.0	423.8	431.3	411.3	249.9
62.5°	200.6	360.3	350.2	352.7	185.6
65°	147.1	306.8	278.4	305.9	142.9
67.5°	120.4	265.8	216.5	265.0	116.2
70°	105.3	235.7	161.3	233.2	105.3
72.5°	102.0	216.5	127.9	207.3	102.8
75°	102.8	193.1	97.0	180.6	103.7
77.5°	94.5	158.8	73.6	153.8	98.6
80°	84.4	120.4	56.0	122.0	88.6
82.5°	71.9	87.8	45.1	90.3	74.4
85°	49.3	64.4	41.8	64.4	51.8
87.5°	23.4	38.5	25.9	36.8	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)